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ABSTRACT

A possible analysis of the functions of the university is that it is both a cultural and an institutional function. The cultural function centers on the pursuit of meaning, the institutional function on the acquisition of the material resources needed for this pursuit. Moreover, a great many future possibilities are open to the university once it is realized that its cultural function is not limited to the pursuit of knowledge but encompasses the full range of meaning. On the basis of this analysis, current developments in the university can be interpreted. Teaching and research contribute to both these functions, and this gives rise to an enduring tension in the university. This tension is not likely to be dissolved by the elimination of either the cultural or the institutional function, nor is the performance of the institutional function likely to be effortless in the foreseeable future. Even though some aspects of this tension will be reduced by the growth of alternate forms of postsecondary education, coping with functional tension, especially in the activities of teaching and research, will continue to be a necessary task for those engaged in university work.
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Functional Tensions in the University

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FUNCTIONAL TENSIONS IN THE UNIVERSITY

Abstract

An analysis of the functions of the university is a necessary step in evaluating certain current practices in the university. The traditional description of the university as an institution whose function is teaching and research is inadequate, especially when joined to the claim that these functions revolve around the pursuit of knowledge. A more satisfactory formulation is to state that the university has both a cultural and an institutional function. The cultural function centers on the pursuit of meaning, the institutional function on the acquisition of the material resources needed for this pursuit. Moreover a great many future possibilities are open to the university once it is realized that its cultural function is not limited to the pursuit of knowledge, but encompasses the full range of meaning.

On the basis of this analysis, current developments in the university can be interpreted. Teaching and research contribute to both these functions, and this gives rise to an enduring tension in the university. This tension is not likely to be dissolved by the elimination of either the cultural or the institutional function, nor is the performance of the institutional function likely to be effortless in the foreseeable future. Even though some aspects of this tension will be reduced by the growth of alternate forms of postsecondary education, coping with functional tension, especially in the activities of teaching and research, will continue to be a necessary task for those engaged in university work.

Traditionally the functions of the university have been described as teaching and research. In the standard formulation the university is stated to be an institution committed to the pursuit and communication of knowledge through teaching and research. However contemporary developments in the university challenge the continued adequacy of analyzing its functions in this way.

With the appearance of external degree programs and certification of life experiences, the place of teaching in higher education is no longer clear. Even in institutions that follow more traditional procedures the importance of teaching is suspect when the positions of top academic status are awarded largely on the basis of performance in research and when the occupants of such positions are required to do little teaching and perhaps then only in graduate seminars which demand no special preparation. This anomaly, that the more successful a university teacher is the less teaching required, is replicated by another anomaly, that the students who are most difficult to teach, the undergraduates, are assigned to the least experienced teachers, the teaching assistants. On the other hand, the importance of research is challenged by the existence in the university of academic departments which cater almost exclusively to certification needs. The role of research is also made questionable when in response to budgetary constraints faculty productivity is measured by the student-credit hours a course generates. Marketability rather than scholarly advancement then becomes the criterion for faculty retention and program development. Also the triviality of some published research makes it difficult to claim this as a function of the university.

A different challenge to the traditional functions of the university is posed by some suggested reforms of the university, especially those that were

heard during the years of student unrest in the late 60s and early 70s and which reappear whenever there is reason to notice the scholarly isolation and neutrality of the university. The demand that the university become politically active or that the university protect the rights of its various constituencies or that the university become a place for the formation of community, all of these are demands that the university address itself to functions that go beyond teaching and research.

These challenges to the traditional functions of the university suggest the timeliness of returning to the question, what are the functions of the university. Until that question is settled, evaluations of current developments in the university lack a firm anchorage. Holding to the traditional functions of teaching and research can either prevent the university from investigating innovative futures or it can protect the university from meretricious solutions to its current problems. What is the obligation of faculty to teach courses that are limited in their scope and pedestrian in their sophistication? At what point does marketability become dysfunctional as a criterion for either research or teaching? Should research dominate the work of the university and the task of advancing the populace to levels of learning increasingly beyond literacy be relegated to the community colleges? A necessary step in answering these and like questions involves determining the functions of the university.

FUNCTIONAL ANALYSIS OF THE UNIVERSITY

Analyzing the functions of an institution such as a university involves explaining the contributions that the recurring activities of the institution make to the development or maintenance of the system within which the institution operates. In explaining the logical characteristics of functional analysis Carl G. Hempel (1959, p. 278) states, "functional analysis seeks to

understand a behavior pattern or a sociocultural institution by determining the role it plays in keeping the given system in proper working order or maintaining it as a going concern." A functional analysis thus examines three different items: a set of activities, a system within which the activities take place, and some need of the system which is satisfied by the activities in question so that the system remains in adequate or effective or proper working order. Hence the question, what are the functions of the university, is incomplete and cannot be answered in that form. The functions of the university are relative to some system within which the activities of the university have effects. Thus before doing a functional analysis of the university a system within which the university operates must be specified.

The two most likely candidates for the systemic location of the university are the life-experience of an individual and the society which supports the university. But both of these choices seem to render a functional analysis of the university inescapably arbitrary since an individual or a society can present a great variety of needs to be satisfied by the activities of the university. For an individual the university can function as a source of entertainment or as place to take walks or as a dating bureau. For a society the university can function as a sorting device for the allocation of social roles or as an instrument for raising property values in a particular locale. Clearly, given the proper circumstances both individuals and society can discover functions in the activities of the university that seem quite peculiar and extraneous to the work of the university. But the very suggestion that some functions attributable to the university might be peculiar and extraneous suggests that a functional analysis of the university is not completely arbitrary. The problem is to ground the analysis in such a way that the functions assigned to the university can be judged to be more or less harmonious with its institutional

character while at the same time recognizing that the university is an artificial creation without a natural teleology.

THE ENVIRONMENT OF THE UNIVERSITY

Consider the human heart. No logical necessity compels us to speak only of the heart's function in the body. Still without further explanation there is not much sense in asking, what is the function of the heart with reference to Philadelphia. The functions attributed to the heart are limited in two ways. First, unless the heart is found within the environment provided by a living body it is not doing much of anything. Secondly, the heart is capable of performing only certain types of activities. Both the environmental requirements for the heart to be active and the constraints imposed by its capabilities limit the functional uses of the heart. This suggests that the environment the university needs for its activities and its suitability for certain activities will, if not strictly limit, at least discriminate among the functions that an individual or a society assigns to the university.

What then is the environment that makes possible the activities of the university? Among the recurrent activities of the university are those classified as intellectual performances: explaining, proving, remembering, organizing, speculating, arguing, inquiring, etc. These are not the only activities of the university since the university also, among other things, owns property, houses students, and purchases material goods. Nor are these activities unique to the university since other institutions sponsor intellectual performances. Rather the point here is that a university without intellectual activities is either inconceivable or a joke. Hence the environment necessary for the activities of the university must be an environ-

ment that, whatever else it does, makes possible intellectual performance. Such an environment contains many features, among them the social institutions that favor reasoned discourse and a value system which associates intellectual activity with human excellence. But the fundamentally necessary condition for intellectual activities is meaning. Intellectual activities are, first of all, symbol-using and symbol-making processes. The symbols used in intellectual activities stand for something other than themselves and in that sense they have meaning. The dependency of intellectual activities on symbolization thus makes meaning a necessary environment for at least these activities of the university. A second way in which meaning is necessary for the university derives from understanding 'meaning' as that is significant. According to this account "the meaning of anything is said to have been grasped when it has been understood as related to other things or as having a place in some system as a whole." (Ogden and Richards, 1946) The activities of explaining, demonstrating, organizing, and inquiring relate to meaning in this sense because they seek to attribute meaning to something or presuppose that something has meaning because of its consequences within a particular system. In both these ways the university depends on meaning much as economic institutions depend on the exchange of goods and political institutions on the exercise of authority.

This dependence of the university on meaning is implied in referring to the university as a cultural institution. One way of understanding culture is to view it as a system of meaning. Such, for example, is the approach that Talcott Parsons (1973, p.12) takes in his general theory of action: "Culture consists in codified systems of meaningful symbols and those aspects of action directly oriented to problems of the meaningfulness of such symbols." Other institutions besides the university deal with the problem of meaning. But the relationship of the university to meaning would

appear to differ from that of a church or theatre or museum. Determining this difference provides a basis for discriminating among the functions that can be assigned to the university: some functions relate to the activities which are distinctive of the university vis-a-vis other cultural institutions.

THE DISTINGUISHING ACTIVITIES OF THE UNIVERSITY

The relationship of the university to meaning can be characterized in four different ways: the type of meaning on which the university focuses, the level at which the university approaches meaning, the manner in which the university pursues meaning, and that which the university does with the meaning it attains.

The first of these, the type of meaning, is the usual basis for distinguishing the university from other cultural institutions. Thus the university is said to pursue knowledge through empirical research or objective inquiry or scientific investigation. But not only does such a characterization preclude the university from pursuing forms of inquiry that are not strictly cognitive, it also confuses the contemporary version of the university with necessary features of the university as such. In the past the university has sometimes served as handmaiden to the church and conscience to the king. These roles may be eschewed by the contemporary American university simply because of its temporal location in a society which places a high premium on cognitive pursuits. Rationality happens to be important for productive and profitable economic activity, and the extension of knowledge generates new possibilities for rational action. If economic pursuits are important enough to a society for it to place a premium on competence, i.e., on the ability to make choices based on knowledge, then the cognitive dimension of culture will be the cultural component that receives the most emphasis. But given a society in which religious

orientations or moral concerns are dominant, the institutions of higher learning could well focus on cultural components other than scientific knowledge and propositions of cognitive significance.

This is an important point when evaluating suggested reforms of the university. If the present cognitive focus of the university is necessary to the university's identity as a cultural institution, then efforts to make the university a therapeutic community or a moral force in society must be denied. As long as the university remains isolated from other cultural concerns by its commitment to cognitive pursuits the responsibility devolves upon the students for protesting the seriously objectionable practices of society and for shaping a personal environment which is congenial to human existence. But if an institution of higher learning can pursue religious, moral, and expressive concerns and still preserve its identity, if a university can remain a university while embracing forms of inquiry that do not center on empirical research and scientific objectivity, then the university is free to explore a great many innovative futures. The present model of university work then becomes a temporal accident and not a logical necessity. However this implies that the university cannot be distinguished from other cultural institutions by the type of meaning on which it focuses.

A more satisfactory way to distinguish the university from other cultural institutions is first, by the level on which it approaches meaning. The description of the university as an institution of higher learning is an acknowledgement that only certain levels of meaning are interesting to the university. The university pursues meanings that are important because they are strategically located within the general schemes that organize thought and inquiry, either completing the frames of reference

within which anything becomes significant or recasting those frames of reference. In pursuing these meanings the university expands the area of meaningful discourse and liberates inquiry from its present limitations. As a cultural institution the university engages in activities that extend the very possibilities of meaning itself and in this way the university promotes the developing history of meaning.

The manner in which the university pursues meaning further distinguishes it from other cultural institutions. The university seeks a compelling expression of meaning, compelling not because of the ritual surrounding it or the force of authority imposing it but because of the competence of the inquiry that generated the meaning. To guarantee this competence the university conducts the pursuit of meaning as a public activity which is guided by the canons of inquiry that have been established by the scholarly community. In this way the university attempts to certify the meanings it expresses as being the result of the best available scholarship and to that extent trustworthy.

A final distinguishing characteristic of the university as a cultural institution is its commitment to a widespread dissemination of those meanings which it has certified. In this the university differs from research institutes which are like the university in that they too extend and certify meaning. However no other institution of higher learning addresses as wide a public as the university, a public which includes those seeking either the substance or certification of advanced learning, those preparing for professional practice, those who will act as intellectuals in society, those who are responsible for governmental and corporate policies, those who will work as scholars. In short, the university is a teaching institution, even though it communicates meaning to the public in ways other than teaching. Also not every act of communication has as its content those meanings which are of special interest to the university since some pre-

paration is needed before the meanings which have been recently certified can be apprehended. But in widely communicating the meanings that it has secured and certified the university distinguishes itself as a cultural institution that teaches..

THE CULTURAL AND INSTITUTIONAL FUNCTIONS OF THE UNIVERSITY

These characteristics of the university mark out its capabilities as a cultural institution. The university relates to meaning by extending, certifying, and communicating it. These are the distinguishing activities of the university and along with the environment that makes them possible, they place constraints on the functions that can be assigned to the university by an individual or by a society. If the university is to continue the activities that distinguish it as a cultural institution, then the functional needs to which the university responds cannot be such as to inhibit the extension, certification, and communication of meaning. Admittedly this is a very weak constraint because it rests on a hypothetical condition. Good reasons can be found to justify a society's support of an institution that relates to meaning as the university does. But against a functional assignment that results in altering the university's relation to meaning there is little point in objecting to it for that reason alone. No absolute need dictates that the university must maintain its distinguishing activities.

A better course of action is to use the distinctive capabilities of the university as a basis for discriminating among the functions assigned to the university. In general the functional needs for which the university is a fit instrument of response are those that relate to cultural interests and concerns. Under certain conditions the good operating condition of an individual or society depends on special attention to culture. For example, if the meaning accumulated by a society has become so vast that it stands in danger of being lost, then the need exists for devices that codify and

organize meaning. Or if traditional meanings are no longer serviceable in an individual's attempt to cope with the problems he faces, then a need exists for locating new meanings. But whatever the conditions that generate a need for explicit attention to culture, the university constitutes a response to the problem of institutionalizing cultural interests and concerns and articulating these into the life of an individual and into society. This might be called the cultural function of the university since in responding to the need for the extension, certification, and communication of meaning the university is identified as a type of cultural institution.

Other functional requirements relating to cultural interests and concerns are satisfied by the university not so much because it is a cultural institution as because it is an institution. The need for the extension, certification, and communication of meaning could be satisfied in a variety of ways, but an efficient arrangement of doing this is provided by the institutional form of the university. Ministering to the cultural needs of society or individuals does not in itself provide the material resources that make either the accomplishment of this task possible or that sustain those who are engaged in it. The people who work on the problems of meaning have their own need for material comfort and social status. Moreover their work is facilitated by arrangements that bring them in contact with others who are similarly engaged. They also stand in need of institutional protection since their work may not be immediately productive and may produce results that are disturbing to society. The institutional form of the university addresses all of these problems. It provides a setting in which scholars find occupational roles, social status, material support for their work, access to colleagues, and protection for work that will bear either distant or controversial fruit. Making all this possible might be called the institutional function of the university. In performing this function the university also addresses cultural interests and concerns, but in-

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directly by providing the arrangements that facilitate the pursuit of meaning.

FUNCTIONAL TENSION IN THE UNIVERSITY

Some of the contemporary tensions in the university and anomalies in its practices can be explained by the interplay of the cultural and institutional functions. Some activities of the university contribute to both these functions. Teaching, for example, is a way of communicating meaning and also a way of commanding the material resources needed by the university. As a basis for charging tuition and demanding public subsidy teaching contributes to the institutional function of the university. But as a way in which the university communicates meaning teaching shares in the cultural identity of the university. Research has the same dual personality. On the one hand research is the extension and certification of meaning, hence a cultural pursuit. On the other hand research that addresses particular social, economic, or political concerns provides a basis for requesting material support for the researcher and the university. The schizophrenic character of teaching and research makes them inadequate expressions of the functions of the university. Rather the university has a cultural and an institutional function to each of which teaching and research contribute. Tension arises when teaching and research seem to be properly located for the integrity of the university in its cultural function but seem to be most serviceable for the survival of the university when contributing to its institutional function. In each of these locations different criteria are used to evaluate teaching and research. As related to the pursuit of meaning the judgment passed on teaching and research focuses on what these activities are in themselves. But as related to the acquisition of material resources a judgment bears on how well these

activities fulfill the instrumental purposes to which they are subordinated.

This functional tension is not easily resolved. The distinctive identity of the university as a cultural institution depends on the contribution that teaching and research make to the cultural function. Moreover the intrinsic worth of teaching and research is most completely realized when these activities participate in the cultural function of the university. Research is most free and teaching most educational when they are not dominated by extrinsic purposes but are focused on the pursuit of meaning. And yet while a world is imaginable in which the university would not have to rely on research and teaching to obtain material support and in which neither individuals nor society would subvert these activities to strictly utilitarian purposes, that world is not a realistic possibility. The most persuasive reason the university has to justify its demands for material support is its service to those cultural concerns that are keenly felt by individuals and society. Research can be very useful, and often is most apparently useful, when it does not generate the kind of meaning that is of primary interest to the university. Likewise teaching that is mostly passing on of information and training in skills is easily defended because of its usefulness to a variety of individual and societal needs, even though such teaching would not communicate the kind of meaning the university explores in its cultural function. When contributing to the institutional function of the university the standards used to judge teaching and research are those that measure its marketability. Good research no matter how trivial, is research that is published or that leads to grants and consultantships. Good teaching is teaching that produces consumer satisfaction or that generates a high number of student-credit hours. Thus the institutional function of the university emphasizes those varieties of teaching and research that are clearly seen by individuals and society to be of use to their own purposes.

RESPONSE TO FUNCTIONAL TENSION

There are two ways of dealing with this functional tension in the university. First it can be dissolved either by eliminating one of the functions or by making its performance so effortless that its demands are no longer problematic. Failing that, the only other recourse is to cope with the tension by balancing off the demands posed by each function.

Dissolving the functional tension by eliminating the cultural function of the university is not a viable option since fulfilling that function gives the university its distinguishing identity as a cultural institution. Moreover the problems involved in performing this function do not at the moment seem to derive from intellectual stagnation. Given the proper resources the cultural life of the present day American university seems vital enough. Thus dissolving the functional tension in the university seems to be a task focused on the institutional function. Here again it does not seem opportune to eliminate this function since the institutional form of the university still seems serviceable as an aid to extending, certifying, and communicating meaning. Hence the only realistic possibility for dissolving functional tension in the university is to render performance of the institutional function effortless. In fact, this is one way of describing the good administrator: he or she is a person who so successfully addresses the institutional function of the university that it is never perceived as problematic and never challenges the cultural function. But recalcitrant governmental bodies and a public interested in a return on its investment in higher education make it unlikely that very many administrators will be successful in this way.

Thus coping with functional tension appears to be the prospect that faces most of those involved in university work. Coping, first of all, means recognizing that the characteristic activities of the university

address more than one functional requirement. Coping further entails adjudicating among the demands of the cultural and institutional functions so that neither is seriously neglected. None of this promises to be an easy task, especially since the teaching faculty and the administration assume primary responsibility for different functions: the faculty for the cultural function and the administration for the institutional function. Coping with functional tension often comes to mean the faculty coping with the administration and vice versa.

As a final note to this analysis, let us consider some of the instances in which functional tension currently appears in the university. There is, first, the anomaly mentioned at the outset that the more successful a teacher becomes the less teaching required. There is as well the reticence of established faculty to meet with large classes of undergraduates. Both of these practices can be justified as appropriate responses to the cultural function of the university. Not all teaching sponsored by the university addresses the cultural function. Some courses are strictly utilitarian in their purposes: the students are purchasing credits as an investment in later social benefits and the teacher is justifying the budget allotted to the department. To those who have achieved eminence in extending and certifying meaning teaching such courses may indeed seem like an abdication of their professional calling.

Even though the cultural function can be used to justify neglect of some forms of teaching, this argument must be qualified in two ways. First, the cultural function of the university can also be used to criticize professors whose scholarly work is hurt by neglect of teaching. A criticism of this form looks at teaching in much the same way as Thorstein Veblen (1975, p. 12) who wrote, "The work of teaching properly belongs in the university only because and in so far as it incites and facilitates the university man's work of inquiry."

Secondly, under present circumstances no professor has a right to completely ignore the institutional function of the university, especially when such a professor is a very expensive faculty member. However teaching large undergraduate classes is not the only way in which the obligation to participate in the institutional function can be met. The professor might also be able to secure independent funding for research or the fame of the professor's work might be a valuable visual aid in the administration's appeal for alumni support. The point here is that though at times neglect of teaching can be justified, it is still incumbent upon a faculty member to contribute in some way to the university's institutional function.

A further note here is that the creation of community colleges softens this conflict between the cultural and the institutional function. With alternate forms of postsecondary education available to high school graduates the university is freer to concentrate on that style of teaching which is congenial to its cultural function. This further differentiation of postsecondary education allows the university to define more narrowly the type of meaning it wishes to communicate, thus enabling the university to identify more completely its teaching activities with the cultural function.

A second area in which there is need to cope with functional tension is the research sponsored by the university. Some research is profitable for the university even though it does not advance the history of meaning. Selecting research on the basis of its monetary return runs the risk of neglecting important forms of inquiry which do not promise financial gain. If government and industry are able to command the time and energies of the scholarly community the account of meaning offered by the university is likely to be skewed by political and economic utility. In that case the cultural function suffers because of solicitude for the institutional function. The matter is even more serious when it is the individual professor rather than the university who profits from timely research which generates remunerative consultancies.

Such a professor uses the office at the university to conduct a personal campaign for improved social and financial status but addresses neither the cultural nor the institutional function of the university.

The tension between the cultural and the institutional function will most certainly endure. Various and in some ways incompatible demands will be placed on the activities of teaching and research. The line between justifiable emphasis on one function and neglect of the other is difficult to trace. The responsibility for marking that line belongs to all who work in the university. In response to urging by the administration to pursue grants and to devise marketable programs of instruction, and in the face of attractive enticements from the business and political community, the individual scholar is responsible for protecting the cultural function from the encroachment of other interests. The extension, certification, and communication of meaning must take place according to its own logic. Likewise faced with the propensity of the faculty to luxuriate in the groves of academe the administration must insist that the institutional function is also proper to the work of the university. The cultural interests of individuals and society must be attended to by the scholarly community. Tension in the university is much like tension in human life: it can be a creative impulse or it can lead to neurosis. If the history of the American university is any indication, this functional tension has been beneficial. The demands of the institutional function have kept the university flexible and the demands of the cultural function have kept it solid. It appears that addressing both of these functions is for the university a creative response to tension.

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Little Emphasis on Student Financial Needs

Because there no longer appeared to be a need for increasing the applicant pool, the equity of heavily subsidized training for health professions whose members were virtually assured of high future incomes was opened to question for the first time. There was a growing feeling that a student receiving a subsidy in the form of a scholarship or even a low interest loan (whatever his need) should repay the favor in dollars or service. This feeling was extended to capitation grants, which, because of their student-based formula and assumed relationship to tuition levels, were seen as individual rather than institutional aid. Thus not only were the old need-based Health Professions scholarships and low-interest loans deprived of their link to the broader objective of increasing aggregate supply, they were seen by many as irrelevant or even contradictory to the new distributional goals.

In addition, such programs had been only moderately effective in directing aid to financially needy students. While more students from low-income backgrounds benefitted from them, the dollar size of the individual loans and scholarships was low relative to the maximum permissible awards. Scholarships were, in fact, larger in size for students from high-income groups and loans were equal across income class. However, in conjunction with recruitment policies, Health Professions loans and scholarships did appear to have helped lower financial barriers. Relative to national family income distribution, the proportion of medical students from low-income backgrounds increased 25 percent between 1970-71 and 1974-75. Also relative to national income distribution, the proportion of medical students from families with incomes over \$25,000 decreased 28 percent.

Special project grants appeared to have helped increase the proportions of groups previously discriminated against and were not seen as inequitable. However, these grants have been a minor factor in both health manpower education policy and the entire affirmative action effort, which is believed to be related much more directly to federal anti-discrimination legislation.

CHAPTER II

CURRENT STATUS OF FINANCIAL ASSISTANCE TO MOD STUDENTS

Because of the growing dissatisfaction with Health Professions loans and scholarships, phaseouts had begun even before the current Congressional debate. Moreover, the new, larger scholarships granted in exchange for a service commitment concentrated available aid on fewer recipients and did not require a means test. Thus medical and other graduate level health professions students have been forced to rely on the Guaranteed Student Loan (GSL) program, which operates through the private lending market, and on Armed Forces scholarships which are also granted in exchange for service.

While total aid from all sources has doubled in the last five years, its effect on individual students has been diminished by rising expenses and increasing enrollments. Nearly all growth in aid dollars has occurred in large service scholarships, which have gone more often to students from middle- and upper-income backgrounds than to those from lower-income families in comparison with their respective proportions of the medical student population.

This chapter will describe aid available from HEW, other federal sources and nonfederal sources, and analyze data on levels and distribution of aid over the last five years.¹

Sources of Federal and Nonfederal Aid

Student aid other than that from personal or family sources is generally classified by whether it is refundable (loans) or nonrefundable (scholarships and grants). Of a current listing of eight kinds of loans available to medical students (some but not all are available to osteopathic and dental students), three are federally funded or subsidized:

1. 1970-71 data are projected for 40,181 students in 101 medical schools from 2,973 responses to 3,290 questionnaires in HEW's survey, How Medical Students Finance Their Education. 1974-75 data are projected for 53,554 students in 114 medical schools from 7,261 responses to 23,233 questionnaires in a national student survey conducted by the Association of American Medical Colleges (AAMC), similarly titled How Medical Students Finance Their Education. While comparative data are available only for medical students, rough estimates of current aid and expenses will be made later in this paper for osteopathic and dental students.

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the GSL and National Direct Student Loan (NDSL) programs, administered by the Office of Education (OE) in HEW, and the Health Professions loan program, administered by the Health Resources Administration (HRA) in HEW. Other loan sources include states, schools, the AMA Educational Research Foundation (ERF), the Robert Wood Johnson Foundation (RWF), and nonguaranteed bank loans.

Of nine kinds of scholarships available, four are from federal sources: Armed Forces pay and scholarships for members attending school and three kinds of scholarships administered by HRA in HEW--Health Professions scholarships and service-oriented, PHS and Physician Shortage Area (PSA) scholarships.² Other scholarship sources are states, schools, and private foundations, including RWF.

In 1974-75, federal programs accounted for 50 percent of a total \$153 million in aid to medical students. Aid administered by HEW-HRA--the programs that will be affected by the current legislative debate--accounted for 25 percent of the total. Table 1 supplies information on provisions of federal aid programs.

Changing Levels of Aid From 1970-71 to 1974-75

Table 2 shows total dollars, number of recipients, and dollars per student enrolled for each source where comparable data were available. Total aid increased from \$69 million in 1970-71 to \$153 million in 1974-75. But enrollment has increased by nearly 35 percent, so that when dollars per student enrolled are calculated, aid has actually risen by two-thirds, from \$1,712 in 1970-71 to \$2,868 in 1974-75. Even if the estimated 6,400 students receiving \$43 million in highly concentrated HEW-HRA and Armed Forces service scholarships are excluded, 1974-75 dollars per student are still \$2,470, a 44 percent increase.

Loans formerly accounted for 61 percent of all aid, or \$41.8 million to 21,700 recipients, with \$27 million in scholarships going to 19,000 recipients. Loans now account for 49 percent of all aid, or \$75 million to 26,400 recipients, with \$78 million in scholarships going to 25,100 recipients.

2. Two other categories of nonrefundable aid are federal in source but are neither considered scholarships nor instruments of education policy: veterans benefits and research grants administered by the National Institutes of Health (NIH) in HEW.

TABLE 1
PROVISIONS OF MAJOR FEDERAL PROGRAMS AIDING HEALTH PROFESSIONS STUDENTS

	Year First Funded	Maximum Award	Interest to Student	Payback Provisions	Administering Agency/ Organization	Criteria for Recipients	Service Requirements
SCHOLARSHIPS							
Federal Health Professions	1965	\$3,500 annually	N.A.	N.A.	HEW-HRA	Extreme Need	None
Public Health Service	1974	\$10,000 annually	N.A.	N.A.	HEW-HRA	Medical, dental, and osteopathy students	Minimum of 2 years 1 year for each year of participation
Physician Shortage Area	1974	\$5,000 annually	N.A.	N.A.	HEW-HRA	Medical and osteopathy students	Minimum of 2 years 1 year for each year of participation
Armed Forces Health Professions	1973	Full tuition and educational expenses plus \$4,000 stipend	N.A.	N.A.	DoD	None	
Armed Forces Active Duty Pay		Full tuition and educational expenses plus average \$9,000 pay	N.A.	N.A.	DoD		
LOANS							
Federal Health Professions	1965	\$3,500 annually	3%	Begins 1 year after study which may include internship and residency; over 10 years. No interest until repayment period.	HEW-HRA	Need	None
National Direct Student Loans	1958/59	\$2,500 first 2 years. \$10,000 cumulative ceiling for undergraduate and graduate years.	3%	Begins 9 months to 1 year after study; over maximum of 10 years. No interest until repayment period.	HEW-OE	Need	None
Guaranteed Study Loan	1965/66	\$2,500 annually; \$10,000 cumulative ceiling for graduate and undergraduate years.	7%	Begins 9 months to 1 year after study; over maximum of 10 years. Some students have interest subsidized until repayment period.	HEW-OE	All students eligible. Need is criteria for subsidy of interest.	None

TABLE 2

AID RECEIVED BY MEDICAL STUDENTS BY SOURCE, 1970-71 AND 1974-75

	1970-71 (40,181 Students)				1974-75 (53,554 Students)			
	Total \$	Size of Award	Number of Recipients	\$/Student Enrolled	Total \$	Size of Award	Number of Recipients	\$/Student Enrolled
SCHOLARSHIPS	27,000,000	1,199	18,885	671	78,329,400	3,119	25,116	1,467
HEW					17,047,388	2,685	6,339	318
Health Professions					(4,818,502)	(1,070)	(4,521)	(90)
Physician Shortage					(3,007,058)	(4,275)	(703)	(56)
PHS					(9,221,828)	(7,611)	(1,211)	(172)
NIH Research	1,800,000	844	2,009	42	2,799,538	2,175	1,279	52
Other Federal	1,300,000	846	1,607	34				
Armed Forces					30,591,510	6,878	4,470	574
GI Bill					4,738,951	2,672	1,780	89
States	1,800,000	581	3,214	46	4,062,714	1,053	3,876	76
All Other	15,500,000	1,752	8,840	385				
Private Schools					2,025,945	1,161	1,745	38
Other					10,981,765	1,268	8,668	205
					6,081,589	1,543	3,983	115
LOANS	41,846,000	1,310	21,698	1,041	74,939,892	2,841	26,375	1,401
Health Professions	11,053,000	1,084	10,045	271	21,007,921	1,515	13,921	392
States	5,959,000	1,404	4,018	140	2,821,377	1,897	1,485	53
Schools	5,083,000	1,269	4,018	127	3,091,958	1,118	2,845	58
All Other	19,751,000			503				
NDSL					2,500,111	1,790	1,390	47
GSL					32,820,309	2,056	15,975	613
AMA-ERF					3,722,160	1,401	2,653	70
Johnson					687,368	856	803	13
Private Bank					4,100,631	2,095	1,963	77
Other					4,188,057	1,856	2,255	78

SOURCES: Derived from national surveys, How Medical Students Finance Their Education, by HEW (1970-71) and AAMC (1974-75).

The HEW-HRA proportion of total aid has remained roughly the same at 25 percent in 1970-71 and 1974-75, although the HEW-HRA scholarships have increased almost three-fold and HEW-HRA loans doubled. In 1970-71 Health Professions scholarships (the only HEW-HRA scholarships then in existence) to 6,800 students accounted for \$6.6 million, compared with \$17 million to 6,300 recipients from all three HEW-HRA scholarships. Health Professions scholarship aid was reduced to \$4.8 million in 1974-75. Thus HEW-HRA scholarship growth has taken place only in the new service programs that tend to concentrate aid on fewer recipients.

While 1970-71 figures separating other sources of loans are of questionable validity, it is clear that GSLs have increased greatly, reaching a 1974-75 level of \$33 million to 16,000 recipients. The three-year-old Armed Forces Health Professions scholarship program accounted for much of the remaining growth, since by 1974-75 such scholarships, together with Armed Forces pay, had reached a level of \$31 million to 4,500 recipients.

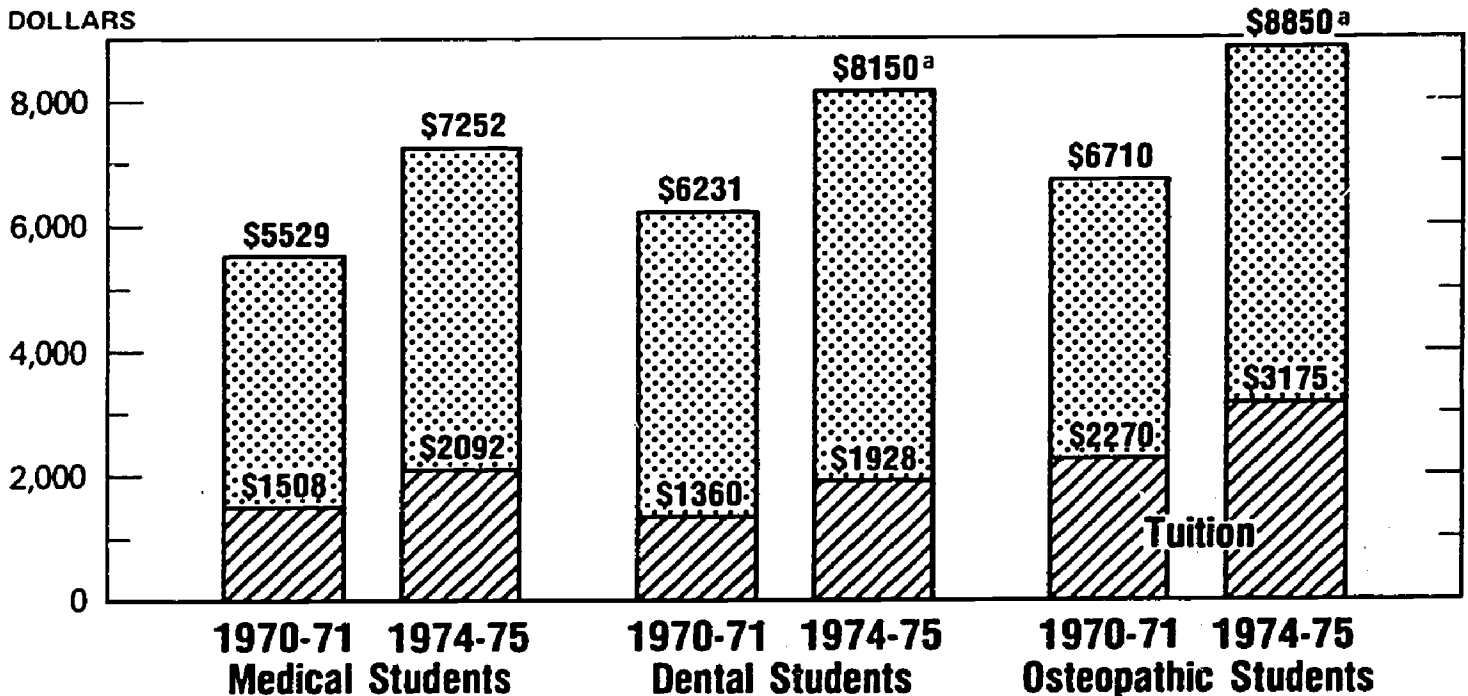
Aid and Expenses, 1970-71 and 1974-75

Chart 2 presents comparative data on aid and expenses for medical students and data on expenses for other health professions students. When aid dollars per student enrolled are subtracted from total expenses for 1970-71 (\$5,529) and 1974-75 (\$7,252), the difference that must be made up by personal earnings or family contributions has increased as follows: 1970-71 expenses were comprised of \$1,508 in tuition and \$4,021 in all other expenses. Subtracting total aid of \$1,712 left an average of \$3,817 to be borne by each student enrolled. By 1974-75 tuition had risen to \$2,092, a 39 percent increase over 1970-71, and other expenses to \$5,160, a 28 percent increase over 1970-71. Subtracting effective aid of \$2,774³ leaves an average of \$4,478 per student, an increase of \$661, or 17 percent over the 1970-71 level.

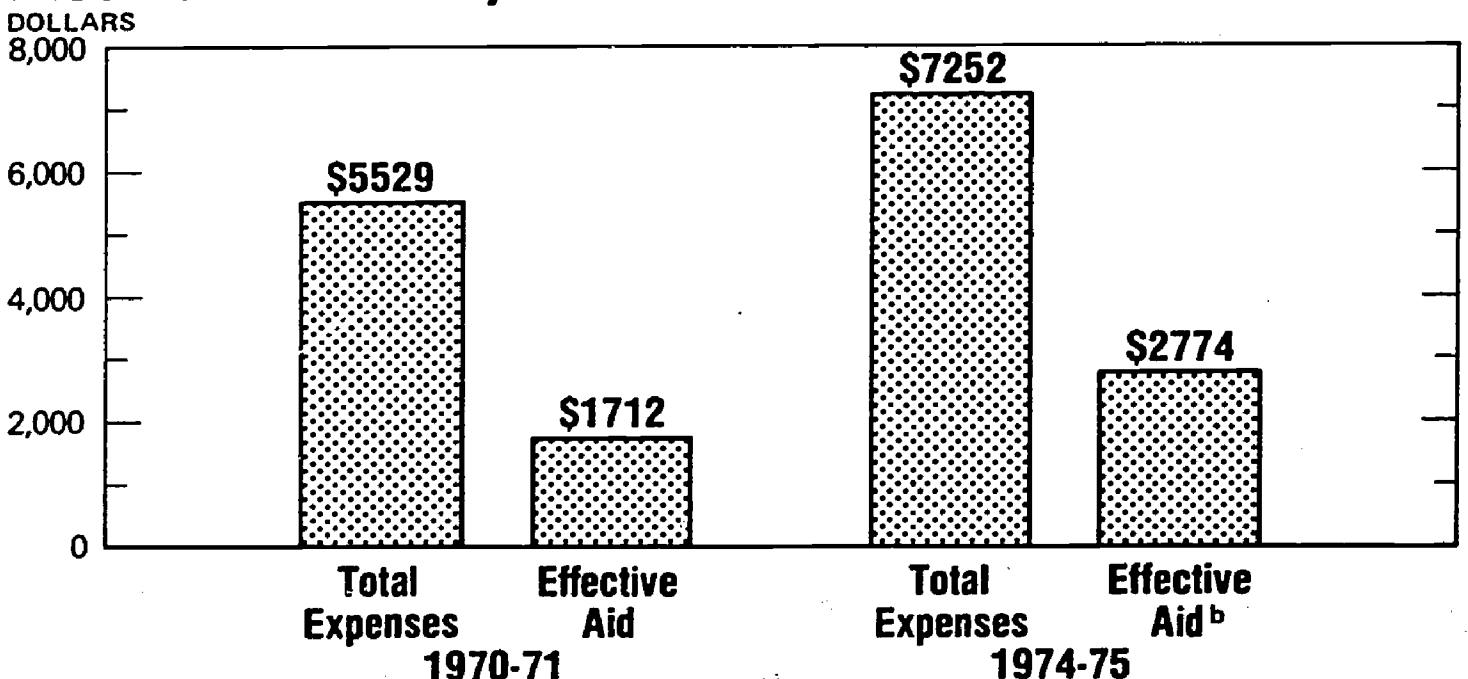
3. The actual aid figure of \$2,868 must be reduced when calculating aid effective in meeting expenses on an average dollar per student basis, because the new larger service scholarships can be in excess of actual expenses--in this case \$38 per student enrolled for PHS scholarships and \$56 per student enrolled for Armed Forces active duty pay.

Chart 2

Tuition and Total Expenses for Average Medical, Dental, and Osteopathic Students, 1970-71 and 1974-75



Total Expenses and Effective Aid for Average Medical Students, 1970-71 and 1974-75



a. Estimated.

b. Excludes scholarship dollars in excess of expenses.

SOURCES: Tuition and expense figures for 1970-71 from HEW's *How Health Professions Students Finance Their Education*; for 1974-75 from AAMC, American Association of Dental Colleges (AADC) and American Association of Colleges of Osteopathic Medicine. Aid figures from AAMC's 1974-75 national student survey and HEW's *How Medical Students Finance Their Education*.

It should be noted that despite the absolute dollar increase in the difference between expenses and aid, it has decreased as a proportion of total expenses and risen more slowly than the Consumer Price Index (CPI). Thus in real terms it has actually fallen. Interestingly, if the 1974-75 aid figure of \$2,470, exclusive of service scholarship dollars and recipients, is used, the difference for the remaining students averages \$4,782, an increase of 25 percent over 1970-71, which is closer to the CPI rise but still not an increase in real terms.

Based on proportional increases in tuition, a similar pattern of increasing differences between expenses and aid can be postulated for dental and osteopathic students.

Distribution of Aid By Parental Income Class

Table 3 presents 1974-75 data on total aid dollars per medical student enrolled and numbers of recipients, by source and parental income class. Due to the large percentage of medical students believed not to be supported by their parents, parental income is not an accurate measure of need. However, it is relevant in identifying those from disadvantaged backgrounds. Students from such backgrounds, supported or not, appear to be receiving more than others when all aid sources are taken together, but less than others for some individual categories, particularly the federal service scholarships that have shown the most growth. Absolute numbers of both HEW-HRA loans and scholarship awards to students from poor and near poor backgrounds have decreased from 1971-72 to 1974-75.

In 1974-75, scholarship dollars from all sources per student enrolled with parental income of less than \$5,000 averaged \$2,014. For students with parental income of \$5-10,000, the average was \$2,193; and for those with parental income over \$25,000, \$912, compared with the all-student average of \$1,467. Dollars per student with parental income of under \$5,000 were higher than for any other parental income class from Health Professions and PSA scholarships, but lower than those for any other parental income class from PHS and Armed Forces scholarships. Non-HEW scholarship dollars per student were greatest for those with parental income of \$5-10,000 and second greatest for those with parental income of \$10-15,000.

TABLE 3
MEDICAL STUDENT AID DOLLARS PER STUDENT ENROLLED AND TOTAL NUMBER OF RECIPIENTS
BY PARENTAL INCOME CLASS, 1974-75

Parental Income Class	\$5,000	\$5,000-10,000	\$10,000-15,000	\$15,000-20,000	\$20,000-25,000	\$25,000	Total							
Number of Students	3,213	5,355	9,640	8,033	6,962	20,351	53,554							
	No.	No.	No.	No.	No.	No.	No.							
	Per Recip- Student	\$ Per Recip- Student	\$ Per Recip- Student	\$ Per Recip- Student	\$ Per Recip- Student	\$ Per Recip- Student	\$ Per Recip- Student							
SCHOLARSHIPS	2,014	2,465	2,193	3,781	1,874	5,878	1,714	4,315	1,394	3,239	912	5,438	1,467	25,116
HEW-HRA Subtotal	618	915	476	1,133	364	1,594	258	933	269	663	249	1,101	318	6,339
Health Professions	199	668	167	897	144	1,296	86	702	58	447	40	509	90	4,521
Physician Shortage	294	215	114	132	51	106	38	75	25	45	24	130	56	703
PHS	125	56	195	154	169	211	134	157	186	171	185	462	172	1,211
NIH Research	40	95	35	88	33	189	55	127	63	194	63	586	52	1,279
Armed Forces	297	183	730	589	786	1,088	843	904	562	581	367	1,125	574	4,470
GI Bill	170	215	139	287	106	400	78	247	99	246	54	385	89	1,780
States	131	350	135	603	93	846	88	777	64	498	43	802	76	3,876
Private	133	350	94	471	47	491	38	269	26	164	3	46	38	1,745
Schools	389	907	403	1,493	272	2,048	246	1,523	208	1,281	74	1,416	205	8,668
Other	236	469	181	640	163	1,035	108	553	103	492	59	794	115	3,983
LOANS	2,421	2,426	2,000	3,715	1,802	6,248	1,666	4,703	1,511	3,649	744	8,634	1,401	26,375
Health Professions	872	1,670	643	2,244	598	3,883	477	2,641	358	1,735	131	1,748	392	13,921
NDSL	97	159	83	243	51	302	48	231	59	186	26	269	47	1,390
GSL	865	1,408	822	2,214	766	3,725	774	2,994	702	2,345	351	3,289	613	15,975
States	58	111	93	250	81	461	71	239	38	186	25	238	53	1,485
Schools	102	254	72	375	60	620	61	426	74	484	39	686	58	2,945
AMA-ERF	141	326	78	301	83	326	65	366	80	395	47	694	70	2,653
Johnson	19	87	23	132	18	211	13	134	12	111	7	128	13	803
Private Banks	117	191	96	221	61	355	80	336	98	290	64	570	77	1,963
Other	150	215	90	250	84	461	77	433	100	357	54	539	78	2,255

SOURCE: Derived from national survey, How Medical Students Finance Their Education, by AMC

In 1971-72, 6,554 students from poor or near poor backgrounds, roughly 60 percent of all such students, received some HEW-HRA scholarship aid. In 1974-75, 2,048 students from similar backgrounds received HEW-HRA scholarships, comprising 24 percent of all such students.

Loan dollars per student with parental income of under \$5,000 averaged \$2,421; and with parental income over \$25,000 the average was \$744, compared with the all-student average of \$1,401. Dollars per student from Health Professions loans, GSLs, and NDSLs were higher for students from poor backgrounds than for those from any other parental income class. Only state loans were higher for students from middle-income rather than lower-income classes. When taken together, nonfederal loan dollars per student were greatest for those with parental income of under \$5,000.

In 1971-72, 9,835 students from poor or near poor backgrounds, roughly 90 percent of all such students, received Health Professions loans. In 1974-75, 3,914 students from poor or near poor backgrounds, comprising 46 percent of such students, were receiving the same loans.

CHAPTER III

FUTURE FINANCIAL NEEDS AND THE IMPACT OF THE MAJOR LEGISLATIVE PROPOSALS

While the financial burden placed on health professions students and their families appears not to have been excessive between 1970-71 and 1974-75, this could be substantially changed over the next few years.

Schools report that tuitions will rise, perhaps precipitously, by 1978-79. Under the bill passed by the House (H.R. 5546) or that proposed by the Administration (S. 2748), total levels of aid would not keep pace with expenses. Thus, out-of-pocket costs would increase faster than students' ability to meet such costs through their earnings or family contributions even if that ability rises with the CPI. Moreover, distribution of new aid would be heavily skewed toward students from middle- and upper-income families. Finally, neither bill would address inequities in current programs.

This chapter will project tuition and expenses through 1978-79 and analyze the future effect of both major legislative proposals on rising needs in terms of aggregate aid levels, distribution by parental income class, and problems with existing programs.

Future Expenses

Against a background of increasing expenses and out-of-pocket costs in the past, tuitions will continue to rise, according to special surveys of medical and dental schools conducted at CBO's request by the AAMC and the American Association of Dental Colleges (AADC). Other student expenses will probably continue to rise with the CPI.

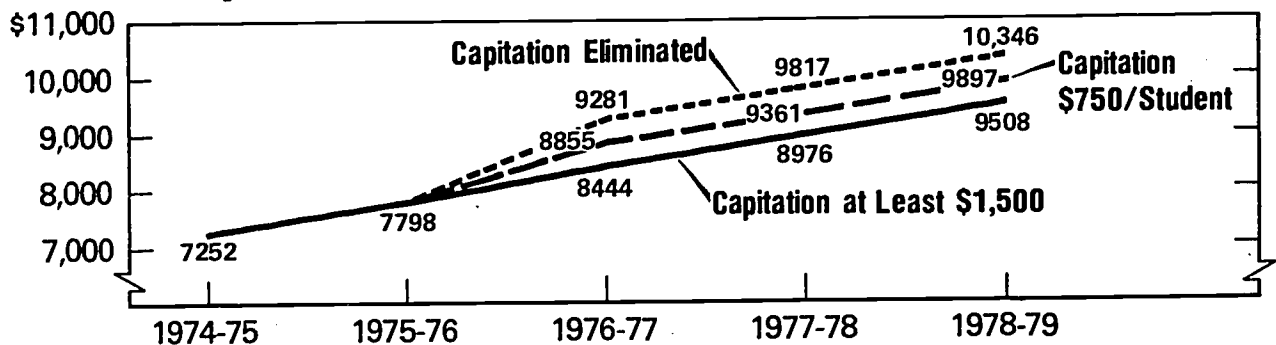
Projected tuitions and total expenses for medical and dental schools are provided in Chart 3. Assuming little change in current capitation grant support, the AAMC predicts an increase in average tuition of approximately 50 percent, from \$2,092 in 1974-75 to \$3,212 in 1978-79.

(21)

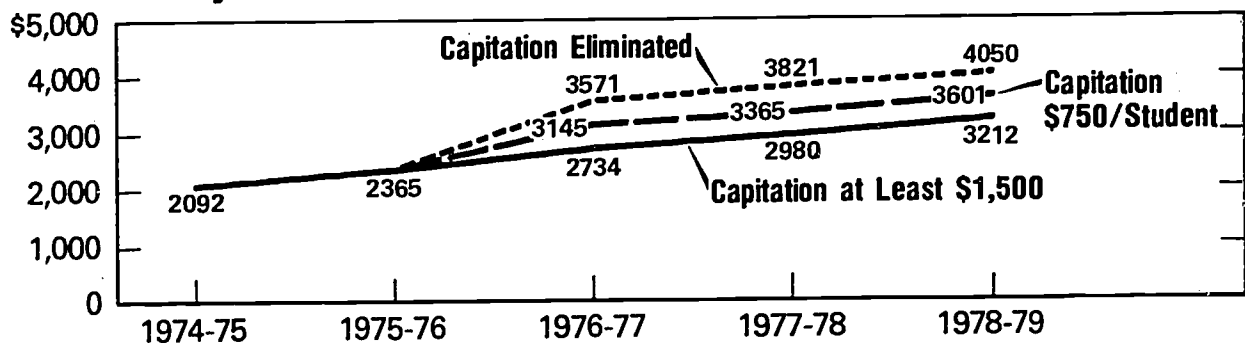
Chart 3

Medical and Dental School Tuition and Expenses Projected Under Varying Conditions of Federal Capitation Support, 1974-75 to 1978-79

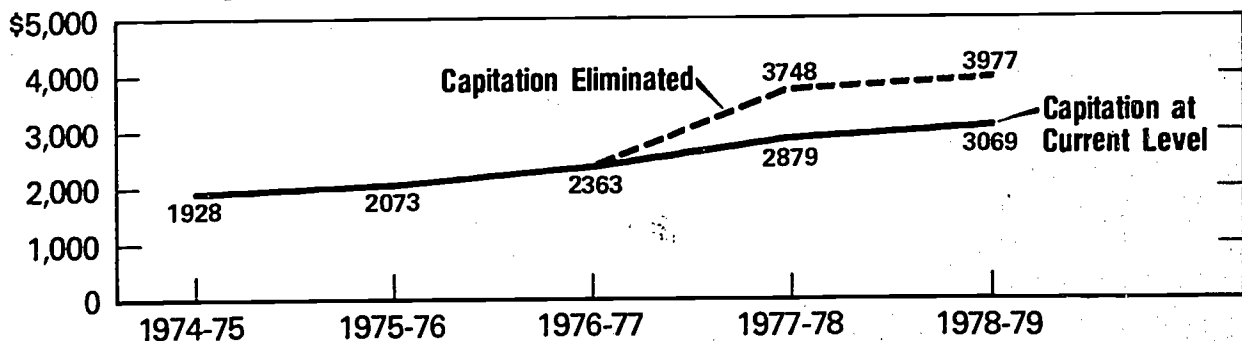
Average Medical School Expenses Projected Under Three Conditions of Federal Support



Average Medical School Tuition Projected Under Three Conditions of Federal Support



Average Dental School Tuition Projected Under Two Conditions of Federal Support



SOURCES: Tuition projections from national surveys of schools conducted by the AAMC and the AADC. Nontuition expenses are assumed to rise from current levels with the CPI, as they have in the past.

While neither of the two major legislative proposals would reduce capitation substantially, such reductions have been actively discussed. In addition, the new legislation may include conditions that would prompt schools to refuse capitation and raise tuitions instead. If capitation support were cut approximately in half from its 1974-75 level of \$1,600 to \$750 per student, the medical schools report tuition would increase about 75 percent to \$3,601 by 1978-79. And if capitation were eliminated, tuition would increase 100 percent to \$4,050.¹

The AADC reports that similar increases in average tuition are planned by dental schools--from \$1,928 in 1974-75 to \$3,069 by 1978-79 if capitation is continued, a 59 percent increase, and to \$3,977 by 1978-79 if capitation is eliminated, a 106 percent increase². Other health professions schools found it difficult to make precise projects, but nearly all of their national organizations predicted substantial increases.

Some believe tuition increases are desirable because they force students to assume more responsibility for their education. Actual medical school costs are approximately \$12,000 annually per student, with 50 percent now borne by the federal government. However, unless some way is found to finance educational costs, students will face serious short-term problems.

1. A total of 48 of the 114 medical schools (30 of the 45 private schools and 18 of the 69 public schools) responded to the AAMC survey, with projections for all three years and at all three levels of aid. Although the rate of increase predicted by public schools was considerably higher than that predicted by private schools, we have used the private rate rather than a composite for two reasons: the low response rate for public schools and the difficulty in predicting tuitions often controlled by state legislatures.

2. Based on responses from 49 of the 59 dental schools in the AADC survey.

In addition to rising tuitions, living expenses are also increasing. Total medical student expenses, calculated by using the CPI to inflate the nonschool share, are projected at \$9,508 by 1978-79 if capitation continues, and as high as \$10,346 if capitation is eliminated. They would be higher still for private schools, particularly those like Georgetown, George Washington, Tulane, and Dartmouth, which have already raised tuitions to \$5,000 or more.

Projected Impact of Major Legislative Proposals
on Levels and Distribution of Aid

Both major legislative proposals would pour additional money into student aid, greatly increasing the federal share of total assistance. However, aggregate levels would not keep pace with increased enrollments or rising expenses. Since the new aid would be used primarily to obtain service commitments, present concentration on fewer, not necessarily needy, recipients would intensify and students from higher-income backgrounds would receive a larger proportion of available funds at the expense of lower-income students.

H.R. 5546, passed by the House in 1975, would require students to repay capitation grants received by schools with either service or money within a four-year period, although the maximum payment would be only \$2,000 per year. It would greatly increase funding for PHS scholarships, with a double payback for failure to serve, but receipt of the scholarships would not be linked to school requirements or admission priorities. Finally, the House bill would maintain funding for Health Professions loans at roughly current levels but raise the current 3 percent interest rate to 7 percent. New funds for the other HEW-HRA programs would be phased out as already planned.

S. 2748, proposed by the Administration, would require schools to set aside a certain percentage of first-year slots for students who agreed to serve in a shortage area, adding the incentive of admission priority to a service scholarship. It would also increase funding for PHS scholarships, with a double payback penalty for failure to serve, and require schools to ensure that 50 percent of all residencies under their control be in primary care specialties. All new funds for other HEW-HRA aid programs would be phased out as currently planned.

Levels of Aid in Legislative Proposals

Levels of financial aid for health professions students channelled through HEW-HRA, including currently budgeted loans and scholarships not requiring new authorization, are presented in Table 4 for the House and Administration bills, 1975-76 through 1978-79.³

Under the House bill, medical students would receive \$35.6 million in 1975-76 in PHS scholarships based on a service commitment, \$71.1 million in 1976-77, \$106.7 million in 1977-78, and an estimated \$106.7 million in 1978-79. Also under the House bill, medical students would receive \$22.4 million through the Health Professions loan program in 1975-76, \$23.8 million in 1976-77, \$25.5 million in 1977-78, and an estimated \$19 million in 1978-79.

Under the Administration proposal, medical students would receive \$22 million in PHS scholarships in 1975-76, \$34.8 million in 1976-77, \$47.5 million in 1977-78, and \$56.6 million in 1978-79. A reduction in scholarship size from the present \$10,000 to \$7,000 would be phased in for new recipients and should be complete after 1978-79. Also under the Administration proposal, medical students would receive \$19.1 million through the Health Professions loan program in 1975-76, \$18.5 million in 1976-77, \$15.6 million in 1977-78, and \$10.9 million in 1978-79.

Impact of Aggregate Aid Levels

Table 5 summarizes the impact of future aid levels on those medical students who do not receive service scholarships. It is assumed that all aid dollars not channelled through HEW-HRA remain at 1975-75 levels and that total aid available in each successive year is shared by a slightly larger number of students because of enroll-

3. It should be remembered that figures given are for authorizations, not appropriations or actual outlays. The latter may run considerably lower. For example, a total of \$60 million was authorized for Health Professions loans during fiscal years 1974 and 1975, but only \$36 million was appropriated.

TABLE 4

TOTAL AUTHORIZATIONS, CAPITATION, AND STUDENT AID
UNDER TWO MAJOR LEGISLATIVE PROPOSALS,
1975-76 to 1978-79

	Administration Proposal (S. 2748)			
	1975-76	1976-77	1977-78	1978-79
<u>Total Authorization</u>	\$309,000,000	\$309,000,000	\$309,000,000	\$309,000,000
<u>HP Capitation</u>				
Total	126,500,000	123,400,000	120,000,000	118,200,000
\$ Per Student in MOD Schools	1,600 ^a	1,500	1,500	1,500
<u>HP Student Aid</u>				
PHS Scholarships ^b	32,000,000	36,200,000	51,000,000	61,600,000
PSA Scholarships ^c	1,500,000	1,000,000	500,000	--
HP Scholarships ^c	3,500,000	3,500,000	1,800,000	--
HP Loans ^c	24,000,000	20,000,000	12,000,000	--
<u>Medical Student Aid</u>				
PHS Scholarships ^b	28,200,000	31,900,000	45,400,000	54,200,000
PSA Scholarships ^c	1,500,000	1,000,000	500,000	--
HP Scholarships ^{c,d}	1,458,000	1,458,000	729,000	--
HP Loans ^{c,d}	11,520,000	9,699,000	5,620,000	--
<hr/>				
	House Bill (H.R. 5546)			
	1975-76	1976-77	1977-78	1978-79
<u>Total Authorization</u>	\$515,850,000	\$590,700,000	\$653,600,000	
<u>HP Capitation</u>				
Total	208,000,000	215,000,000	214,000,000	
\$ Per Student in MOD Schools	2,100	2,100	2,000	2,000
<u>HP Student Aid</u>				
PHS Scholarships	40,000,000	60,000,000	120,000,000	120,000,000 ^a
PSA Scholarships ^c	1,500,000	1,000,000	500,000	--
HP Scholarships ^c	3,500,000	3,500,000	1,800,000	--
HP Loans	30,000,000	30,000,000	30,000,000	15,000,000 ^a
<u>Medical Student Aid</u>				
PHS Scholarships	35,600,000	71,100,000	106,700,000	106,700,000 ^a
PSA Scholarships ^c	1,500,000	1,000,000	500,000	--
HP Scholarships ^{c,d}	1,458,000	1,458,000	729,000	--
HP Loans ^d	14,549,000	14,549,000	14,549,000	7,275,000 ^a

a. Estimated.

b. Actual funds received by students for each school year will differ because of some forward funding: for medical students \$21.9 million in 1975-76; \$34.8 million in 1976-77; \$47.5 million in 1977-78; and \$56.6 million in 1978-79.

c. New authorization not necessary.

d. Funds available to students will also include 11 percent school share and returns to school loan funds of \$6.3 million in 1975-76; \$7.7 million in 1976-77; \$9.4 million in 1977-78; and \$10.9 million in 1978-79. This would result in the following totals for medical students under the Administration bill receiving Health Professions loans: \$19.1 million in 1975-76; \$18.5 million in 1976-77; \$15.6 million in 1977-78; and \$10.9 million in 1978-79. For medical students under the House bill receiving Health Professions loans: \$22.4 million in 1975-76; \$23.8 million in 1976-77; \$25.5 million in 1977-78; and an estimated \$19 million in 1978-79.

TABLE 5

EXPENSES, AID AND OUT-OF-POCKET COSTS TO MEDICAL STUDENTS WHO ARE NOT SERVICE SCHOLARSHIP RECIPIENTS
UNDER TWO MAJOR LEGISLATIVE PROPOSALS THROUGH 1978-79

	1974-75 (For compara- tive purposes)	1975-76	1976-77	1977-78	1978-79
<u>Administration Bill</u>					
Total Expenses	\$ 7,252	\$ 7,798	\$ 8,444	\$ 8,976	\$ 9,508
Total Nonservice Scholarship Aid	2,470	2,164	2,187	2,153	2,048
Expenses Less Aid	4,782	5,634	6,257	6,823	7,460
Expenses Less Aid for 1974-75, Inflated Using CPI		5,035	5,292	5,557	5,835
Additional Funds Required to Meet Expenses	--	599	965	1,266	1,625
<u>House Bill</u>					
Total Expenses	\$ 7,252	\$ 7,798	\$ 8,444	\$ 8,976	\$ 9,508
Total Nonservice Scholarship Aid	2,470	2,297	2,446	2,603	2,360
Expenses Less Aid	4,782	5,501	5,998	6,373	7,148
Expenses Less Aid for 1974-75, Inflated Using CPI		5,035	5,292	5,557	5,835
Additional Funds Required to Meet Expenses	--	466	706	816	1,313

SOURCES: Derived from AAMC survey, How Medical Students Finance Their Education, AAMC tuition and enrollment projections, and provisions of House and Administration bills.

ment increases.⁴ Service scholarship dollars and recipients are excluded and the remaining aid dollars are calculated for the average nonservice scholarship recipient enrolled under the House and Administration bills.

Dollars per nonservice scholarship recipient in 1975-76 would be \$2,297 under the House bill and \$2,164 under the Administration bill, both less than the 1974-75 level of \$2,470 cited in Chapter II. Dollars per nonservice scholarship recipient would continue at roughly the same level for 1976-77 and 1977-78 and fall to \$2,048 in 1978-79 under the Administration bill. Under the House proposal, comparable dollars would be \$2,446 in 1976-77 and \$2,603 in 1977-78, but would fall to \$2,360 in 1978-79.⁵

When aid dollars are subtracted from estimated expenses per student, the difference, which must be borne by the student or his family, rises from \$4,782 in 1974-75 to \$7,460 in 1978-79, a 56 percent increase under the Administration bill. Under the House bill the difference rises to \$7,148, a 49 percent increase. Both increases are much greater than the 25 percent rise in comparable figures between 1970-71 and 1974-75.

The additional costs might be made up by increased contributions from families. To accomplish this, schools could accept a greater proportion of students from wealthier families. Since 50 percent of all medical students now come from families with incomes over \$20,000, compared to 22 percent for the entire population at this income

4. The legislative proposals are not particularly expansionary, but increases planned by schools in advance will take place. Enrollment for 1975-76 is 55,797. The AAMC estimates a net rise of approximately 1,300 students annually (previous year's enrollment minus 3 percent attrition plus 3,000 new entries)--57,123 students in 1976-77, 58,409 in 1977-78, and 59,657 in 1978-79.

5. The drop-off is caused in part by the fact that no authorization for 1978-79 is included in the House bill. CBO has estimated new money for Health Professions loans at half the 1977-78 level, based on past phaseouts with similar provisions for aid to prior recipients only.

level, this would shift physician distribution even further toward those from high income backgrounds. However, if one assumes students' and their families' ability to meet such costs will rise no faster than the CPI, and that income composition remains unchanged, additional funds will be required. This sum--the amount to which a new aid proposal could address itself--would be \$466 per medical student who does not receive a service scholarship in 1975-76, \$706 in 1976-77, \$816 in 1977-78, and \$1,313 in 1978-79 under the House bill. Under the Administration proposal, it would be \$599 in 1975-76, \$965 in 1976-77, \$1,266 in 1977-78, and \$1,625 in 1978-79. Thus additional funds required to meet expenses for all medical students who do not receive service scholarships could be as high as \$76 million in 1978-79. Similar and possibly larger requirements can be postulated for dental and osteopathic students, so that incremental aid required to meet the needs of all MOD students might be as high as \$109 million under the Administration bill by 1978-79.

Distribution of Aid By Parental Income Class

The concentration by the Congress on large scholarships linked to a service commitment and the reduction in real terms of financial aid for nonservice scholarship recipients would affect poorer students more severely because of their limited ability to meet additional costs. In addition, their problems would be exacerbated by anticipated changes in the distribution of all aid by income class. Table 6 shows projected distribution of all medical student aid dollars based on the assumption that PHS scholarships, which have no need criteria, will be distributed evenly across parental income class. (While these now tend to go to students from middle- and higher-income classes, the demand from needy students will probably be increased by decreases in other aid.) It was also assumed that Health Professions loans and the other HEW-HRA scholarships being phased out will be distributed across income class in the same proportion as they are now and that all other loans and scholarships, whose levels are assumed constant, will also be distributed as they are now.

Aid dollars per student with parental income of less than \$5,000 would be lower than in 1974-75 in every year under the Administration proposal--\$3,774 in 1978-79 compared with the 1974-75 level of \$4,435. The same figure would increase slightly to \$5,068 in 1978-79 under the House bill because it retains need-based Health Professions loans. However, both proposals would increase dollars per student in middle- or upper-income classes.

TABLE 6
AID DOLLARS AND HEW SCHOLARSHIP DOLLARS PER MEDICAL STUDENT AND NUMBER OF HEW-HRA SCHOLARSHIPS BY
PARENTAL INCOME CLASS UNDER TWO MAJOR LEGISLATIVE PROPOSALS THROUGH 1978-79

1974-75 HEW-HRA Scholar- ships \$/ Student Enrolled	No. of HEW-HRA ship Recipients	1975-76			1976-77			1977-78			1978-79			
		Total Aid \$/ Student Enrolled	Scholar- ship \$/ Student Enrolled	No. of ^a HEW-HRA ship Re- cipients	Total Aid \$/ Student Enrolled	Scholar- ship \$/ Student Enrolled	No. of ^a HEW-HRA ship Re- cipients	Total Aid \$/ Student Enrolled	Scholar- ship \$/ Student Enrolled	No. of ^a HEW-HRA ship Re- cipients	Total Aid \$/ Student Enrolled	Scholar- ship \$/ Student Enrolled	No. of ^a HEW-HRA ship Re- cipients	
HOUSE														
\$4,435	915	\$5,000	\$ 426	\$ 795	560	\$4,973	\$1,377	769	\$5,463	\$1,891	815	\$5,068	\$1,787	646
4,193	1,133	5-10,000	4,344	747	757	4,890	1,335	1,106	5,393	1,871	1,271	5,060	1,787	1,077
3,676	1,594	10-15,000	3,949	721	1,193	4,504	1,313	1,820	5,026	1,860	2,203	4,718	1,787	1,939
3,380	933	15-20,000	3,738	692	837	4,296	1,288	1,760	4,826	1,848	1,758	3,804	1,787	1,616
2,905	663	20-25,000	3,250	681	674	3,812	1,279	1,127	4,348	1,843	1,497	4,135	1,787	1,400
1,656	1,101	25,000	2,111	656	1,615	2,594	1,257	2,941	3,148	1,832	4,199	3,040	1,787	4,093
2,868	6,339	All Students	3,160	694	5,636	3,724	1,290	9,123	4,257	1,848	11,743	4,028	1,787	10,771
ADMINISTRATION														
\$4,435	915	\$5,000	\$3,717	\$ 548	475	\$3,829	\$ 743	595	\$3,845	\$ 877	559	\$3,774	\$ 947	482
4,193	1,133	5-10,000	3,792	500	616	3,908	701	816	3,945	858	845	3,981	947	804
3,676	1,594	10-15,000	3,422	473	938	3,548	679	1,298	3,604	848	1,435	3,568	947	1,447
3,380	934	15-20,000	3,326	444	624	3,458	654	925	3,528	835	1,118	3,505	947	1,206
2,905	663	20-25,000	2,960	434	490	3,102	646	750	3,184	831	943	3,174	947	1,045
1,656	1,101	25,000 All	1,977	408	1,077	1,821	623	1,838	2,259	820	2,579	2,278	947	3,056
2,868	6,339	Students	2,856	449	4,237	2,996	655	6,224	3,075	836	7,853	3,062	947	8,044

SOURCE: Derived from How Medical Students Finance Their Education, Association of American Medical Colleges, draft report, 1975, and provisions of House and Administration health manpower bills.

a. Actual figures may be slightly lower if any Health Professions scholarship recipients also receive service scholarships.

Table 6 also provides evidence of the impact of the switch to large, service-based scholarships in terms of numbers of HEW-HRA scholarship recipients. Those from poor and near poor backgrounds would generally decrease while those from high-income backgrounds would increase markedly, continuing the trend already noted for the last four years.

Continued Problems With Existing Programs

According to the assumptions incorporated into the preceding figures, problems with those existing federal aid programs on which nonservice scholarship recipients would continue to depend are left unresolved by the major legislative proposals. Both the House and the Administration bills imply by omission a further increase in reliance on the GSL program. Primarily because of banks' reluctance to increase this form of aid, as cited by the American Bankers Association (ABA) as well as HEW surveys of lenders, the private market is not likely to meet future MOD student needs without major restructuring of the program. While the House bill slows the phaseout of Health Professions loans, it does not add sufficient funds to meet rising expenses.

In addition to the adequacy of future aid levels and the equity of their distribution, there are other problems with forcing nonservice scholarship recipients to rely on programs that provide aid much as it has been given in the past. Neither GSLs nor Health Professions loans are particularly efficient in meeting MOD student needs because they do not take advantage of such students' unique situation--extremely high educational costs, but a high rate of return on training for almost all students in later years. Both programs provide subsidies that are unnecessary for the vast majority of MOD students, given their high lifetime earnings. Chart 4 gives projections of median net physician income in 1975, 1980, 1985, 1990, and 1995 by the number of years since graduation from medical school.

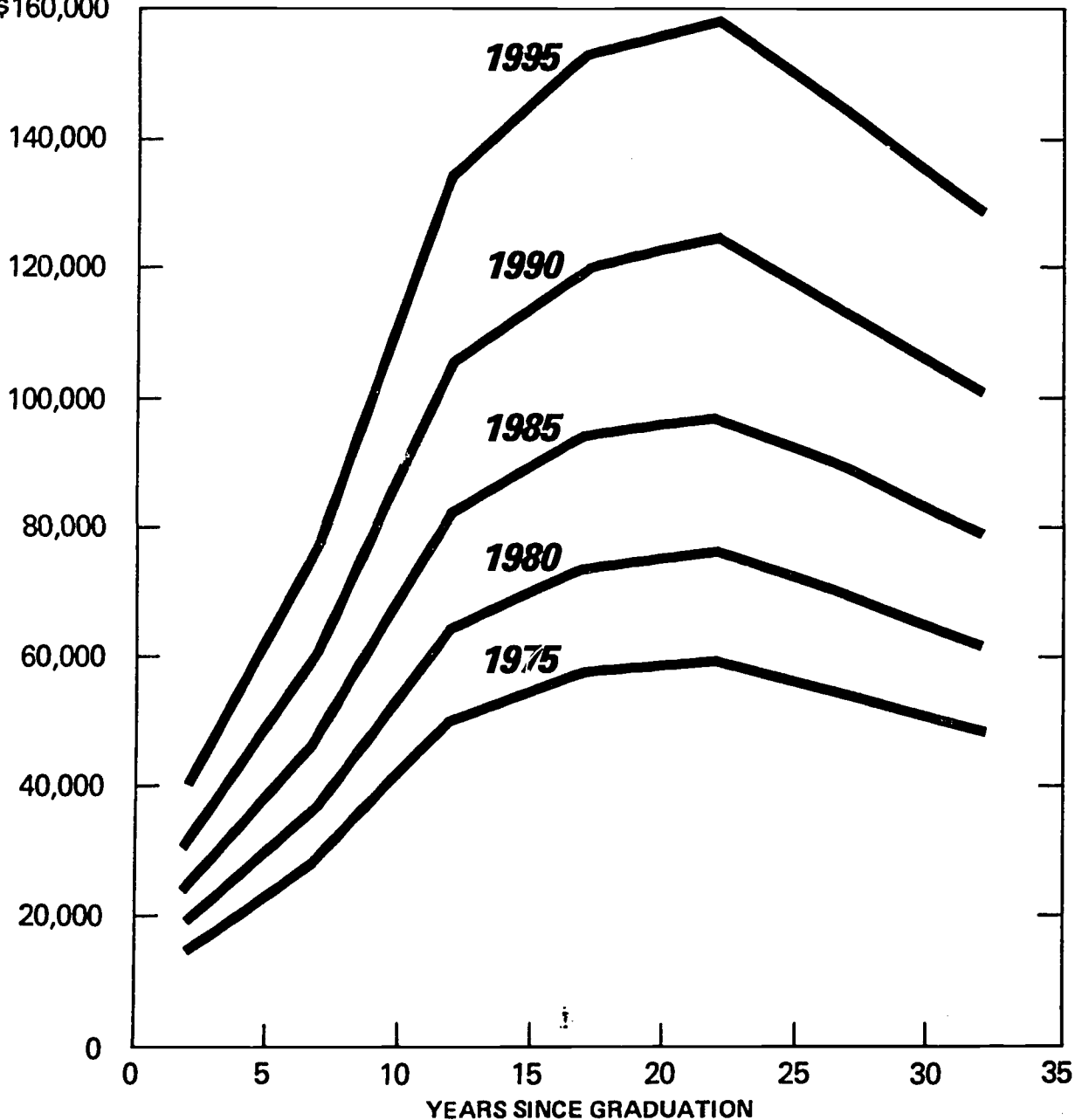
The Guaranteed Student Loan Program

The GSL program was initiated in 1965 to subsidize and insure commercial borrowing. It currently does so for loans of up to \$2,500 annually but with a cumulative limit of \$10,000 for undergraduate and graduate studies combined. Repayment is at 7 percent interest over a maximum of 10 years. It begins within one year after studies cease and may be delayed further only for government service.

Chart 4

Median Net Income, All Physicians, By Year Since Graduation, 1975, 1980, 1985, 1990, and 1995

MEDIAN NET INCOME
\$160,000



SOURCE: Unpublished data from Social Security Administration, HEW, 1975.

Eighty-five percent of GSL borrowers have their interest paid during school and the grace period by the federal government. The program pays up to an additional 3 percent in special allowance interest subsidies on behalf of all borrowers to induce bankers to make the loans. Most recently the special allowance has been 2.25 percent.

Unlike other programs where access to capital is determined by funding levels, GSL depends on nonfederal lenders (banks, schools, credit unions). In some cases, intermediary guarantors (states and nonprofit agencies) superimpose their own borrowing limits.

There are a number of problems with GSLs that would only be exacerbated with increased dependence on the program by MOD students, including availability and size of loans, the cumulative limit of \$10,000, the expense of subsidies in light of questionable need, and the difficulties posed to students by the 10-year repayment period.

For two reasons there may not be a significant increase in the size of loans even if federal limits were raised. First, state agencies (there are 22), or statewide private nonprofit agencies (there are five) are encouraged to insure GSLs instead of the federal government. Fifteen of the state agencies lower the federal ceiling, most of those to \$1,500, as do two of the private nonprofit agencies. Second, banks place a ceiling on the portion of their lending portfolios allocated for GSLs, which is then distributed among a large number of students, usually by rationing the amount an individual can borrow. In 1974-75 the average GSL to medical students was \$2,056, compared with the federal ceiling of \$2,500, but with considerable variation in size of loan.

Reports of lack of availability are supported by the fact that numbers of recipients have not kept pace with total enrollment in institutions of higher education. At times, medical students may have difficulties simply because of uncoordinated information--students or financial aid offices must contact many sources before obtaining a loan. Lack of availability may be mitigated where the school has committed itself to be the lender of last resort. But major problems exist with banks, which provide about 75 percent of all GSLs.

According to a 1975 report by the ABA, members are reluctant to make GSLs because of low interest rates. At the most recent subsidy of 2.25 percent, income to banks is limited to 9.25 percent rather than the prevailing market rate of over 11 percent for personal loans. The fact that GSLs are guaranteed provides some advantages. But the ABA also claims that guarantors of GSLs refund on the defaults (which are increasing rapidly in number) very slowly. Several months is not an unusual wait. Further, the banks claim that OE is inconsistent in its definition of "due diligence" with which defaulters must be pursued, and that schools don't notify them when students move or graduate. A third major complaint of the ABA is that the federal government continually changes its regulations, causing constant administrative headaches.

In addition to these factors, a second survey of banks released in 1975 by OE cites lower income in general and long repayment periods as further complaints about GSLs. That study found that, without changes in the program, only 29 percent of lenders plan to increase their GSL volume, most of them smaller banks. Again, the needs of even more MOD students are unlikely to be met by relying on an apparently unresponsive private market.

Students are more likely to reach the \$10,000 cumulative limit when the school itself is the lender and size of loans is not subject to bank limitations. It should be noted that the Administration has introduced education legislation which would increase the cumulative GSL limit to \$25,000 but leave annual limits unchanged.

Current subsidies, which would increase proportionately with borrowing, are expensive. GSLs remain attractive in that they use the private market and do not involve as large immediate expenditures as direct federal loans. However, over the life of the loan, each \$1,000 borrowed will entail about \$450 in both kinds of interest subsidies paid by the federal government. Moreover, such subsidies may not be needed for MOD students, most of whom could fully afford to repay all educational costs, including full interest, if they had some way of deferring the payment.

Though not now a major complaint, the 10-year repayment period, particularly under the terms most banks require (equal or decreasing annual payments) could be a problem for MOD students with the larger loans they will need. Annual payments will be increasingly difficult to meet

early in the new graduate's career. In turn, this situation could work against distributional objectives by pushing students toward more lucrative specialty practices in wealthy areas.

The Health Professions Loans Program

The Health Professions loan program, the original financing device for health manpower education policy, was enacted in 1963 and first funded in 1965. Administered through school loan funds, it now provides loans of up to \$3,500 to health professions students in "need," although the average grant was \$1,515 in 1974-75. Recipients pay no interest during school or during advanced training or government service. Repayment is delayed for the same period; loans are then repaid over a period of 10 years at 3 percent interest.

Funding levels in the House bill alone would not be sufficient to meet increased expenses. In addition, schools' allocation of the money has always been difficult to control, resulting in low average grants and less than optimal effectiveness in focusing on students from the most needy backgrounds. Despite the increase from 3 percent to 7 percent interest proposed in the House bill, Health Professions loans would continue to provide a subsidy by requiring that no interest be charged during school and advanced training. This foregone interest amounts to \$400 on each \$1,000 borrowed. The subsidy may be inequitable because it is given to a very limited group, as well as inefficient because the recipients do not need it.⁶

Finally, while direct loans result in lower federal cost than GSLs because subsidies are slightly less and repayments offset past outlays, a major disadvantage is that they require large and immediate budget outlays.

6. NDSLs, on which Health Professions loans were modeled and which are available to higher education students generally, provide similar subsidies but in a much smaller proportion to the number of potential beneficiaries.

CHAPTER IV

OPTIONS FOR MEETING MOD STUDENTS' FINANCIAL NEEDS

The previous discussion indicates that aid to MOD students provided by a combination of existing programs and proposed legislation could involve problems of adequacy, efficiency, and equity. The Congress may decide to provide funds to meet the additional MOD students' financial needs. If so, a simple expansion of the methods now being proposed to affect distributional objectives would be the least efficient way of providing access to capital for large numbers of students. A separate and distinct program of repayable aid to meet students' financial needs would be more efficient. If such a program were formulated together with other health manpower initiatives, a coordinated policy might be easier to achieve.

This chapter will describe problems with using the same aid mechanism to meet both distributional objectives and student needs, develop criteria for a separate program of repayable aid, and evaluate five loan options according to the criteria.

Difficulties in Meeting Distributional Objectives and Student Needs Through the Same Program

Chapter I discussed the reasons for the divergence of ways in which health care objectives and students' financial needs are met by federal health manpower policy. Those reasons strongly support the concept of two separate and distinct approaches, one for each kind of objective, rather than a single policy that might compromise both goals.

Subsidies attractive enough to induce service are inequitable unless limited to those whose service is actually required--possibly far fewer than those needing aid. Large service scholarships are particularly inefficient as well in dealing with the needs of students for access to capital. One key reason is that some total awards are in excess of financial needs and thus service scholarships help fewer students than could be helped for the same amount of money.

(37)

Even if it were determined that the nation required as many service-obligated graduates as there were students who need aid (for example, the 50 percent of students who now receive loans instead of the 15 to 20 percent who would receive scholarships under the Administration and House bills), there are other disadvantages. First, severe maldistribution may be a short-term problem, and large service scholarships may be a short-term policy the federal government will wish to discontinue at some point in the future. It is hoped that as more graduates are sent to practice in shortage areas, more health professionals will locate in such areas of their own accord, because of better support services and increased opportunities for professional exchange. In addition, if national health insurance were enacted, more direct incentives than scholarships might be available to affect geographic distribution. Conversely, student needs for financing a very costly education are not likely to disappear, and options for dealing efficiently with those needs may take time to establish.

Second, service scholarships themselves are extremely expensive, and the costs of maintaining as many NHSC members in active practices as there are service-obligated graduates must also be considered. A decision to provide such aid for a large proportion of students enrolled should be based clearly on how many obligated graduates are needed and how much the Congress is willing to pay for them, rather than on mixed objectives.

It should be noted that the use of a single program of large loans instead of scholarships to meet both distributional objectives and student needs also poses problems. Because loans and loan forgiveness programs have been tried and found wanting in their impact on geographic location, the distributional objective could be seriously undermined.

Loan Options to Meet MOD Students' Financial Needs

The following criteria can be used to evaluate repayable options for meeting MOD students' financial needs:

1. Consistent availability of adequate levels of aid--including incentives to increase funds if the private market is utilized--and access to capital for MOD students of all economic levels.

2. Minimizing unneeded subsidies and utilizing MOD students' ability to assume costs.
3. Methods for dealing with repayment problems in relation to borrowers' future earnings.
4. Administrative feasibility and coordination with other health manpower policies.
5. Low long-term and short-term costs to the federal government.

Five major options are presented here. Three would involve existing programs: (1) expanding the Health Professions loans program beyond the levels proposed in the House bill, with additional funds going only to MOD students and retaining the federal government as supplier of capital; (2) the same expansion of Health Professions loans with an additional change to a completely unsubsidized program; and (3) attempting to utilize the GSL program so that MOD students' needs are met by the private market and within the overall context of all higher education assistance. Two others are new programs: (1) a separate nonsubsidized GSL program for MOD students, which would still depend on the private market; and (2) a program of direct MOD loans with income-related repayments that could be "on the budget" or operated by a self-supporting agency that would raise capital.

Table 7 provides short- and long-term cost data for each of the five options, assuming four years of program operation.¹ The cost estimates were made assuming that the loan options meet the additional borrowing needs of MOD students not receiving service scholarships under the Administration bill of \$41 million in 1975-76, \$66 million

1. More detailed information on the various cost components is provided in Appendix A, which is available on request. Long-term net and gross cost projections assuming continuous, rather than four-year, operation of each option are provided in Appendix B, also available on request.

TABLE 7
RELATIVE FOUR-YEAR NET OUTLAYS, TEN-YEAR NET PROGRAM OUTLAYS, AND LONG-TERM OUTLAYS
FOR FOUR-YEAR OPERATION OF FIVE LOAN OPTIONS TO MEET MOD STUDENTS' ADDITIONAL
BORROWING REQUIREMENTS, WITH AND WITHOUT CAPITATION

(In millions of dollars)

LOAN OPTION	1975-76	1976-77	1977-78	1978-79	Total Four-Year Outlays 1975-79	Ten-Year (1988-89) Net Program Out- lays (exclusive of government interest costs) ^a	Long-Term Net Program Outlays (exclusive of government interest costs) ^a	Long-Term Net Program Outlays (defaults and interest subsi- dies) ^b
<u>With Capitation</u>								
1. Expanded Health Professions Loans	44	73	99	131	347	-60	20	145
2. Nonsubsidized Health Professions Loans	44	73	99	131	347	-170	12	170
3. Expanded Guaranteed Student Loans (GSL)	4	10	16	26	56	157	164	164
4. Nonsubsidized MOD-GSL Loan Program	0	0	0	0	0	10	17	17
5. a. Direct Loans with Income-Related Repayments	44	72	93	118	327	52	-315	0
b. Self-Supporting Loan Agency with Income-Related Repayments	2	2	1	0	5	0	0	0
<u>Without Capitation^c</u>								
1. Expanded Health Professions Loans	44	136	163	200	543	253	30	227
2. Nonsubsidized Health Professions Loans	44	136	163	200	543	66	-267	19
3. Expanded Guaranteed Student Loans (GSL)	4	14	27	41	86	247	253	253
4. Nonsubsidized MOD-GSL Loan Program	0	0	0	0	0	15	26	26
5. a. Direct Loans with Income-Related Repayments	44	134	155	180	513	81	-494	0
b. Self-Supporting Loan Agency with Income-Related Repayments	2	2	1	0	5	0	0	0

a. Some long-term net program costs and ten-year net program costs are negative because repayments, including accrued interest, offset program costs. Figures do not include cost to the government of borrowing money.

b. If the federal government makes no money on interest charged and if student interest payments equal government interest, then the net long-term program outlays would consist exclusively of default costs and interest subsidies.

c. Elimination of capitation for four operating years would result in savings of \$335 million elsewhere in health manpower expenditures. However, if capitation were phased out rather than abruptly terminated because of its impact on the training institutions, these savings would be reduced.

in 1976-77, \$85 million in 1977-78, and \$109 million in 1978-79. Costs are calculated both with² and without continued capitation funding to schools.

The following analyses of each option refer to the cost data in Table 7 as well as to the qualitative criteria listed above.

Expanding Health Professions Loans for MOD Students

With this option, the loan limit would be raised to \$2,500 plus tuition, from the current total of \$3,500, and interest to 7 percent, from the present 3 percent, as proposed in the House bill. In addition, the program would be expanded to provide the additional funds required to meet MODs' expenses. Its chief drawbacks are its high and immediate cost and the perpetuation of subsidies.

Equitable distribution of funds among MOD students might be a problem if present administration through schools, which has not been optimally effective in targeting aid on needy students, continues unchanged. However, this becomes less significant if funding provides adequate levels of aid for all MODs.

The fact that the loans are interest-free during school and residency training, without subsequent recovery of the foregone income, is an unnecessary federal subsidy of MOD students, who need to delay interest but could repay it later.

Repayment problems, admittedly less severe because interest is foregone during both school and advanced training, would still be exacerbated with larger Health Professions loans. The ten-year repayment period would come early enough in the health professional's career to induce him to choose a more lucrative specialty or type of practice to facilitate payback.

2. Some support the elimination of capitation because they consider it a form of student assistance that allows schools to keep tuitions lower than they would be without it. Though it has other purposes, capitation may be a student subsidy if meaningful conditions are not attached to it. CBO has therefore also calculated outlays for each option assuming capitation were eliminated, tuitions raised as predicted in Chapter III, and borrowing increased. Although the figures reflect immediate elimination, it should be noted that it may not be feasible to do so without a phaseout period.

Administrative problems would be minimized because this option builds on a program already in operation. The present location of the Health Professions loan program in HEW-HRA would facilitate coordination with other health manpower objectives, such as limiting loans in each school to the number of students not needed for a service commitment, or conditioning schools' participation in the program on acceptance of capitation grant requirements.

The federal outlays for meeting MOD students' additional borrowing requirements over the next four years with Health Professions loans would be \$347 million, comprised of the basic borrowing requirements and the foregone income due to the fact that no interest is charged during school and advanced training--the latter because the interest-free period is an implicit subsidy to students that the government pays for. Long-term net outlays--when all outstanding loans made in four years of operation are repaid--would be \$20 million, excluding the government's interest cost. Assuming that student interest payments will equal government interest costs, long-term net outlays would consist only of interest subsidies and defaults or \$145 million.

If capitation were eliminated, saving \$335 million elsewhere in the legislation, four-year outlays would rise to \$543 million and the long-term net outlays, excluding government interest costs, would be \$30 million. If long-term net outlays consist only of interest subsidies and defaults, they would be \$227 million.

A Nonsubsidized Health Professions Loan Program for MOD Students

This option would be very similar to an expansion of the current Health Professions loan program, with the loan limit raised to \$2,500 plus tuition, and interest raised from 3 to 7 percent, as proposed in the House bill. However, compounded interest would accrue during school and advanced training, to be added to principal when actual repayments began. As with the first option, the chief drawback would be high immediate costs.

If the program were administered through the schools, as is the case with the present system, distribution of loans to students most in need may not be accomplished unless sufficient funds to meet the additional financial needs are appropriated.

The unnecessary interest subsidy resulting from not charging interest during schooling and residency training would be removed. However, if interest accrues, payback problems for students would be exacerbated.

Administrative feasibility and possibilities for coordination with other health manpower objectives should be similar with this option to expanding the present Health Professions loan program.

The federal outlays for meeting MOD students' additional borrowing requirements over the next four years with non-subsidized Health Professions loans would be \$347 million, as with the first option. However, in the long run, repayments would exceed outlays by \$170 million, excluding the government's own interest costs. Assuming that student interest payments will equal government interest costs, then long-term net outlays would consist only of \$12 million for defaults.

If capitation grants were eliminated, four-year outlays would be \$543 million, but in the long run, repayments would exceed outlays by \$267 million, excluding the government's interest costs. Assuming student interest payments equal government interest costs, long-term net outlays would be \$19 million for defaults.

Relying on the Existing GSL Program

Under this option, MOD students would be aided by the existing program which insures loans made on the private market and provides federal funds to pay interest during school and to lower it to students thereafter. The special allowance interest subsidy would be raised administratively from 2.25 to 3 percent. However, serious difficulties in meeting future needs of MOD students for access to capital would remain.

Under the GSL program, needy students would probably continue to receive funds at least in proportion to their numbers. However, the funds available may simply not be sufficient for two reasons. First, the Congress and the Administration might be reluctant to raise limits high enough to meet maximum student needs which could be \$7,000-8,000 annually per student. Second, raising loan limits alone is not likely to provide adequate financial assistance, even if the special allowance is raised, because of banks' reluctance to increase loans. Some assurance that defaults would be less frequent or repaid more quickly

would be needed. This suggests that a separate and more intensive recordkeeping and tracking system for MOD students be instituted as a method to lower default rates. Even with such changes, nonfederal guarantors (states and private agencies) may still impose lower loan limits.

Any interest subsidy to provide incentives to lenders, either at the current GSL rate or an increased rate, might be unnecessary in view of MOD students' ability to assume costs. Some way of delaying interest payment would be needed to eliminate the other unnecessary subsidy of payment of interest while the student is in school. The present GSL program does not provide for compounding of accrued interest and banks are therefore reluctant to lose income by delaying interest payments.

Similarly, the existing GSL program is not easily adapted to repayment of principal and accrued interest in any but the standard way of annual equal or decreasing instalments, since banks plan on certain income levels from their investments. Nor does it insure the borrower against high obligations if his income is low, short of default or bankruptcy. Larger loans, combined with the ten-year repayment period beginning soon after school, would exacerbate payback problems early in a new graduate's career, when income is lower. These repayment problems might influence students to choose specialties or types of practice which are more lucrative rather than those where additional manpower is needed.

Nearly all of the changes discussed above would require that OE establish special administrative procedures for MOD students. Treating MOD students differently from all others within the context of a general education program may not be feasible. Thus, if the existing GSL program is relied upon to meet MOD students' needs, the subsidy concept is most likely to be retained and higher loan limits are less likely. In addition, coordination with other health manpower policies might be difficult because of the separation of the GSL program from HEW-HRA, the agency that has primary responsibility for administering such policies.

Assuming payment of interest during school continues and the special allowance interest subsidy is raised to 3 percent of principal, the incremental federal outlays for meeting MOD students' additional borrowing requirements through the existing GSL program over the next four

years would be \$56 million. The net long-term outlays for this option would be \$164 million, of which \$154 million is interest subsidies.³ (The net federal outlays for GSLs, as opposed to direct loan options, rise over time because these loans originate from and are repaid to private lenders.)

If capitation grants were eliminated, four-year outlays would be \$86 million and long-term net outlays would be \$253 million.

A Separate Nonsubsidized GSL Program for MOD Students

A separate, nonsubsidized GSL program for MOD students would be modeled after the existing GSL program but administered by HEW-HRA. Loan limits would be much higher--possibly \$8,000 annually--and most of the factors contributing to banks' reluctance to increase loan allocations could be dealt with. But the use of the private market virtually precludes other than conventional payback methods, thus leaving a choice between subsidies or heavy burdens on borrowers.

Needy students would probably get a proportional share of available funds, as they do now with GSLs. Some of the banks' objections to GSLs could be met by setting the interest rate at the equivalent of 10 percent now but allowing it to vary for individual borrowers over the life of the loan. (For example, it could be reset periodically at 4 points over the most recent short-term Treasury bill rate.) This may make large, long-term loans more attractive to banks. Likelihood of default, already reportedly low for MODs, would be minimized by their separation from other students. This separation would facilitate both tracking of MOD graduates and the use of the threat of exclusion from other federal programs such as medicare and medicaid for nonrepayment.

If students pay all interest during and after school, unnecessary subsidies would be eliminated. However, since interest alone on maximum loans of \$8,000 annually could come to more than \$3,200 by the student's fourth year of schooling, the program would have to allow for compounding so that banks would be willing to let interest accrue.

3. None of these projections include the cost of the higher subsidy for GSLs currently made to MOD students, exclusive of their additional borrowing requirements, or for GSLs to any other students.

This separate, nonsubsidized GSL program for MODs might make acceptable to lenders a repayment period of 15 years, instead of the usual ten-year period. However, it would remain extremely difficult to prevent heavy burdens on borrowers because of the use of conventional methods of repaying principal and accrued interest. Graduated or income-related annual payments would therefore require an intermediary agency to finance the delay, and this would negate some of the advantages of using the private market (savings in administrative costs and capitalization). Thus choice of specialty and kind of practice could be adversely affected by very high initial obligations, and students would not be protected against lower than anticipated incomes.

This option's attractiveness to banks would be somewhat offset by the problems involved in still another set of forms and procedures. The reputation of the existing GSL program among banks is such that it would take strong administration and marketing to implement a MOD GSL successfully.

Some believe payback problems with an unsubsidized MOD GSL are themselves an advantage in pushing more students toward service scholarships, but this assumes that large numbers of NHSC members will be required. Conditioning schools' participation in a MOD GSL on their furthering distributional objectives would be facilitated by the location of this option in HEW-HRA.

An unsubsidized MOD GSL would entail only default costs. The four-year outlays for this option to meet MOD students' additional borrowing needs in the next four years would be \$0.1 million. The long-term net outlays would be \$17 million. If capitation were eliminated, four-year outlays would be \$0.2 million and long-term net outlays would be \$26 million.

A Direct MOD Loan Program With Income-Related Repayments

A direct loan program with income-related repayments would represent the greatest departure from current programs. This program could be operated directly by HEW-HRA or by a self-supporting agency that would raise its own capital and make loans to MOD students. The burden of fixed annual repayments with conventional loans would be substantially reduced for borrowers. Thus larger (up to \$7,500 yearly and \$30,000 in total), yet completely unsubsidized loans to be repaid in 20 years, could be made at interest rates at which the federal government borrows.

Distribution would not be a problem, if sufficient funds were available. Even if the program were operated privately, both students and institutions could be represented in the agency so as to guarantee access to all.

Initial levels of aid would depend on adequate capitalization. Risk of default and, therefore, reduction in available capital would be minimized by the separation of MODs from other students, facilitating both tracking and the use of the threat of exclusion from federally funded programs if debts are not paid. Interest rates at which the government borrows would ensure adequate returns, supporting future levels of available aid.

This option would maximize MOD students' ability to bear the costs of their own education, including interest.

The income-related payback feature would minimize borrowers' problems in the following manner: For each \$1,000 borrowed, the student would sign an agreement to repay, for example, 0.3 percent of his future adjusted gross income.⁴ Repayment would begin after school and continue for up to 20 years or until the borrower had repaid a maximum amount--the original loan plus interest and an insurance premium charged to all borrowers. The insurance premium would cover the portion of their debt that borrowers with future low incomes would be forgiven if not paid after 20 years. Thus undue burdens on graduates early in their professional careers would be eliminated. This might also encourage graduates to establish less lucrative primary care practices in low-

4. In practice, terms would be actuarially determined.

income areas because they would be relieved of heavy financial responsibilities. The insurance against the possibility of income too low to meet standard obligations should also encourage participation of students with low family incomes who might otherwise be reluctant to incur large debts.⁵

The experimental nature of this option could be a disadvantage. The income-related feature may be difficult to administer. However, administration would be facilitated compared with options that use the private market, because large numbers of lenders would not have to be dealt with. Operation by HEW-HRA or by a self-supporting agency directly involved with schools should facilitate coordination with distributional objectives.

Such coordination is important because a universally available loan program with income-related repayments could be more attractive than a service scholarship and thereby subvert efforts to improve geographic distribution. If legislation required schools, as a condition for receiving capitation grants, to set aside entry slots for those who agree to practice in an underserved area, the incentive to accept a service scholarship would be strengthened. Participation in the loan program could also be limited to those schools that agree to set aside a certain number of slots for service scholarships. However, if legislation does not require these slots to be set aside, it may be important to limit participation in the loan program to those schools which have met an assigned service commitment target.

The four-year outlays using this option to meet MOD students' additional borrowing needs would be \$327 million. In the long run, repayments would exceed outlays by \$315 million, excluding government interest cost. Assuming student interest payments equal government interest costs, there would be no long-term net outlays for this option because defaults and interest are included in the terms of the loans.

5. A variant of this option that has been discussed would involve an income cutoff below which repayments would simply be cancelled, rather than a sliding scale. Although this form of low-income insurance would be considerably easier to administer, it would probably benefit very few borrowers. For the majority, repayments could be structured to rise over time, but at a uniform rate that would be less advantageous to those with lower incomes.

If capitation grants were eliminated, four-year outlays would be \$513 million, and in the long run, repayments would exceed outlays by \$494 million, excluding government interest costs. Again, assuming student interest payments equal government interest costs, there would be no long-term net outlays for this option.

If this option were operated by a self-supporting MOD loan agency, costs to the federal budget would be essentially start-up expenses, with or without capitation grants. These are estimated to be \$5 million over a three-year period, to be repaid to the federal government. There would be no long-term net outlays.

CONCLUSION

Expenses of MOD students will increase more sharply over the next five years than financial assistance from all sources, including aid provided in legislation passed by the House or proposed by the Administration. The adverse effect on students from low-income backgrounds is likely to be exacerbated by a shift in the distribution of financial aid under either bill toward those from wealthier families. Moreover, inefficiencies exist in current loan programs relied upon by MOD students.

Five options for dealing with these problems through federally sponsored loan programs have been reviewed in this paper. Of two new alternatives, a direct MOD loan program with income-related repayments would be most likely to meet criteria of access to capital, efficiency, and effectiveness both in dealing with students' payback problems and encouraging primary care in shortage areas. Short-term outlays would be among the highest, but this option would be least expensive in the long run. A separate nonsubsidized GSL for MOD students could meet most of the criteria but severe student payback problems would remain. Both short- and long-term outlays would be among the lowest. Three other options, involving reforms in existing programs, would meet fewer criteria.

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